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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/475,269	12/30/1999	AYMAN BEDAIR	03384-0364	6151	
Docket Clerk	7590 04/14/200	EXAMINER			
PO Drawer 800 Dallas, TX 7538			HARPER, KEVIN C		
Danas, IA 1550	3 <b>U</b>		ART UNIT	PAPER NUMBER	
			2416		
			MAIL DATE	DELIVERY MODE	
			04/14/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Communication		Application	pplication No. Applicant(s)					
		09/475,269		BEDAIR ET AL.				
Office Action Summary			Examiner		Art Unit			
			Kevin C. Ha		2416			
Period fo	The MAILING DATE of this commur or Reply	nication appe	ears on the d	over sheet with the c	orrespondence ac	ldress		
WHIC - Exter after - If NC - Failu Any (	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE IN INSIGN OF THE	MAILING DA s of 37 CFR 1.136 munication. tatutory period wil y will, by statute, c	TE OF THIS  6(a). In no event  Il apply and will ecause the applica	S COMMUNICATION, however, may a reply be timexpire SIX (6) MONTHS from ation to become ABANDONE	<b>J.</b> hely filed the mailing date of this c ○ (35 U.S.C. § 133).			
Status								
1)[\	Responsive to communication(s) file	ed on 13 Ma	v 2008					
•	Responsive to communication(s) filed on <u>13 May 2008</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
3)	Since this application is in condition	<i>7</i> —			secution as to the	e merits is		
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Dispositi	on of Claims							
4)🛛	Claim(s) <u>1-15 and 20-34</u> is/are pend	ding in the ap	pplication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	5)⊠ Claim(s) <u>1-14,20-32 and 34</u> is/are rejected.							
7)🛛	Claim(s) 15 and 33 is/are objected to	to.						
8)	Claim(s) are subject to restrict	ction and/or	election req	uirement.				
Applicati	on Papers							
9)□	The specification is objected to by th	ne Examiner.						
•	-			l objected to by the E	Examiner.			
,	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
						FR 1 121(d)		
11)□	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
·	•	o by the Exa		The diagoned office	, (0.1011 01 1011111	10 102.		
	ınder 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Notic 3)  Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	_	.) Interview Summary Paper No(s)/Mail Da i) Notice of Informal P i) Other:	ite			

Art Unit: 2416

## Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on March 13, 2009 has been entered.

## Response to Arguments

Applicant's arguments filed March 13, 2009 have been fully considered but they are not persuasive.

Applicant argued that the combination of references does not disclose adapting the bandwidth of a network to maintain a QoS by reducing the number of channels. However, where a new connections are not permitted, the number of active connections will decrease.

## Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 9-13, 20 and 27-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin et al. (US 6,198,725) in view of Daniel et al. (US 5,726,985) and Widegren et al. (US 6,374,112) and Geagan, III et al. (US 6,263,371).

1. Regarding claims 1 and 20, Constantin discloses a method of adapting a network to maintain a Quality of Service level in the network (col. 3, lines 7-13). The method comprises the steps of identifying and measuring a parameter after the packet has been transmitted across a

Application/Control Number: 09/475,269

Art Unit: 2416

network (fig. 4, steps 108 and 112; col. 1, lines 32-39; fig. 1), and enabling optimization of the network bandwidth when the measured parameter differs from a predetermined value (fig. 4, step 114; col. 6, line 63 through col. 7, line 11). Further regarding claim 20, Constantin discloses an apparatus (fig. 1) comprising a parameter identifying mechanism, a parameter measuring device and an optimization enabling device (items 22; col. 7, lines 30-45; fig. 4).

Page 3

- 2. However, Constantin does not disclose adapting a PBX network. Daniel discloses a PBX used in a packet network (fig. 1). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a PBX in the invention of Constantin in order to provide packet connectivity among telephone users (Daniel, col. 10, lines 40-47 and 49-54; col. 1, lines 49-52).
- 3. Further, Constantin in view of Daniel does not disclose providing an optimization that reduces the size of voice packets transported in the network. Widegren discloses adapting the frame size of packets to meet a target QoS (i.e. delay; col. 15, lines 2-9). Therefore, it is known in the art that increasing or decreasing the size of a packet changes the path delay of the packet based on packet processing. The rationale for the combination is if a technique that has been used to improve one device, and a person of ordinary skill in the art would recognize that it would improve similar devices in the same way, using the technique (i.e. changing the size of a packet to desirably affect the transmission delay of the packet) would be obvious (see KSR Int'l Co. v. Teleflex Inc. (2007)).
- 4. Regarding claims 9-10 and 27-28, Constantin in view of Daniel and Yamato does not disclose incrementing a packet counter as claimed. Geagan discloses incrementing a counter by one to keep track of the sequence of incoming packets and incrementing a counter by more than one if a packet is lost (abstract; fig. 3 and fig. 6, steps 78 and 84-90). Therefore, it would have

Art Unit: 2416

been obvious to one skilled in the art at the time the invention was made to keep track of a sequence of packets using a counter in the invention of Constantin in view of Daniel and Yamato in order to properly convey the real-time information within received packets (Geagan, col. 2, lines 38-42).

5. Regarding claims 11-13 and 29-31, in Constantin the optimization is static by limiting the number of channels on a network and the optimization is adaptive (fig. 8, "Reject Bandwidth Request; fig. 9A, "Update the Total Bandwidth Allocation and Available Bandwidth", "Take Measures to Enforce the Service Contract Agreements" and "Release a Block of 'Borrowed' Bandwidth to the ATM interface").

6.

Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin et al. (US 6,198,725) in view of Daniel et al. (US 5,726,985) in view of Geagan and Thorson (US 4,440,986).

- 7. Constantin in view of Daniel discloses a method of (and apparatus for) adapting a PBX network as noted in the rejection of claims 1 and 20 above. However, Constantin in view of Daniel does not disclose first and second PBX cabinets. Thorson discloses a cabinet for a PBX (col. 4, lines 53-60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a cabinet for a PBX in the invention of Constantin in view of Daniel in order to provide a physical housing for the components of a PBX as is known in the art.
- 8. Still further, Constantin does not specifically disclose a register for storing a measured parameter. Daniel discloses storing a parameter in a register (col. 22, lines 13-20). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to store a

Art Unit: 2416

measured parameter in a register in the invention of Constantin in order to use the parameter in a subsequent calculation as is known in the art.

Claims 3, 6-8, 21 and 24-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel and Geagan, as applied to claim 1 or 20 above, in further view of Yamato et al. (US 5,694,390).

- 9. Regarding claims 3 and 21, Constantin in view of Daniel does not disclose measuring a sequence number associate with a packet. Yamato discloses measuring a sequence number of successive packets (col. 25, lines 62-66). The sequence is associated with stored data packets (col. 8, line 63 through col. 9, line 4). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to measure a sequence number in the invention of Constantin in view of Daniel in order to determine a utilization level in a network (Yamato, col. 26, lines 4-8).
- 10. Regarding claims 6 and 24, Constantin does not specifically disclose a register for storing a measured parameter. Daniel discloses storing a parameter in a register (col. 22, lines 13-20). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to store a measured parameter in a register in the invention of Constantin in order to use the parameter in a subsequent calculation as is known in the art.
- 11. Regarding claims 7-8 and 25-26, the limitations of these claims have been addressed in the rejection of claim 3 or 21 above.

Claims 4-5 and 22-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel and Geagan, as applied to claim 1 or 20 above, in further view of Campbell et al. (US 2003/0140159).

Claims 34 is rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel and Thorson, as applied to claim 2 above, in further view of Campbell et al. (US 2003/0140159).

12. Regarding claims 4-5, 22-23 and 34, Constantin in view of Daniel (and Thorson) does not disclose measuring differences in packet arrival times for round trip packets. Campbell discloses measuring difference in arrival times for round trip packets (para. 136 and 139; para. 130 and para. 132, last four lines). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to measure packet arrival times for round trip packets in the invention of Constantin in view of Daniel (and Thorson) in order to detect a utilization level within a network (Campbell, para. 136).

Claims 14 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Constantin in view of Daniel, Yamato and Geagan, as applied to claim 14 or 29 above, in further view of Thorson (US 4,440,986).

13. Regarding claims 14 and 32, the combination of references does not disclose a PBX cabinet having cards. Thorson discloses a cabinet for a PBX having cards (col. 4, lines 53-60). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a cabinet for a PBX in the invention of Constantin in view of Daniel in order to provide a physical housing for the components of a PBX as is known in the art.

## Allowable Subject Matter

Claims 15 and 33 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2416

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Trost, can be reached at 571-272-7872. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax

number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications associated with a customer number is available through Private PAIR only. For more information about the PAIR system, see portal uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin C. Harper/

Primary Examiner, Art Unit 2416

April 13, 2009